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In re Application of

*THACKERAY, et al*

Application Number

*08/206792*

Filed

*March 4, 1994*Paper No. *#29*

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United States Patent Application Publication No. *2002/0197532*, page, \_\_\_\_\_ line \_\_\_\_\_.

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## (54) ELECTROCHEMICAL CELL

## Publication Classification

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## ABSTRACT

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(21) Appl. No.: 10/228,734

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## Related U.S. Application Data

(63) Continuation of application No. 08/206,792, filed on Mar. 4, 1994.

## (30) Foreign Application Priority Data

Sep. 2, 1993 (ZA)..... 93/6488

An electrochemical cell comprises as an anode, a lithium transition metal oxide or sulphide compound which has a  $[B_2]X_4^{n-}$  spinel-type framework structure of an  $A[B_2]X_4$  spinel wherein A and B are metal cations selected from Li, Ti, V, Mn, Fe and Co, X is oxygen or sulphur, and n- refers to the overall charge of the structural unit  $[B_2]X_4$  of the framework structure. The transition metal cation in the fully discharged state has a mean oxidation state greater than +3 for Ti, +3 for V, +3.5 for Mn, +2 for Fe and +2 for Co. The cell includes as a cathode, a lithium metal oxide or sulphide compound. An electrically insulative lithium containing liquid or polymeric electronically conductive electrolyte is provided between the anode and the cathode.